

**IN THE CLAIMS AMEND**

1. (Currently Amended) A cleaning, sanitizing and/or disinfecting device for treatment of a human or animal tissue with a photocatalytically activatable material, comprising:

- an applicator, wherein the applicator includes a patch for positioning directly adjacent an area of human or animal tissue requiring cleaning, sanitizing, and/or disinfecting without causing abrasion to same;
- a photocatalytically activatable material applied to the patch; and
- a light source integrated into the patch for activating the photocatalytically activatable material.

2. (Original) The device according to claim 1, wherein the photocatalytically activatable material comprises a semi-conductive material.

3. (Original) The device according to claim 1, wherein the photocatalytically activatable material comprises a semi-conductive material having a band gap of approximately 0.5 to approximately 5 eV.

4. (Previously Amended) The device according to claim 2, wherein the semi-conductive material includes those listed in Table I.

5. (Previously Amended) The device according to claim 2, wherein the semi-conductive material includes  $\text{TiO}_2$  based solid solutions and compounds having a total electron volt band gap less than the electron volt band gap of  $\text{TiO}_2$ .

6. (Previously Amended) The device according to claim 2, wherein the semi-conductive material includes  $\text{TiO}_2$  in combination with one or more of the groups comprising peroxides, superperoxides, permanganates, iodates, chlorides and halides.

7. (Original) The device according to claim 1, wherein the photocatalytically activatable material is applied to at least a portion of the applicator.

8. (Original) The device according to claim 1, wherein the photocatalytically activatable material is integrally associated with the applicator.

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17. (Original) The device according to claim 1, wherein the light source consists primarily of a wavelength less than approximately 600 nanometers.

18. (Original) The device according to claim 1, wherein the light source comprises one or more light emitting diodes.

19. (Previously Amended) The device according to claim 18, wherein the one or more light emitting diodes comprise gallium based light emitting diodes.

20. (Original) The device according to claim 1, further comprising means for powering the light source.

21. (Original) The device according to claim 20 wherein the powering means comprises one of AC current and DC current.

22. (Previously Amended) The device according to claim 21, wherein the DC current comprises a primary or secondary electrochemical cell.

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25. (Previously Amended) A method of cleaning, sanitizing and/or disinfecting human or animal tissue with a photocatalytically activatable material, comprising the steps of:

- providing a cleaning, sanitizing and/or disinfecting device including: (1) an applicator, wherein the applicator includes a patch for positioning directly adjacent an area of human or animal tissue requiring cleaning, sanitizing, and/or disinfecting without causing abrasion to same; (2) a photocatalytically activatable material applied to the patch; (3) a light source integrated into the patch for activating the photocatalytically activatable material; and (4) means for powering the light source;

- applying the applicator to the human or animal tissue to be cleaned, sanitized and/or disinfected;

- activating the light source; and

- initiating photocatalysis of the photocatalytically activatable material to, in turn, at least one of clean, sanitize and/or disinfect the human or animal tissue with the photocatalytically activated material.

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